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1 Document Analysis and Retrieval: Latent semantic linking over homogeneous repositories

Alessandra Alaniz Macedo, Maria da Graça Campos Pimentel, José Antonio Camacho Guerrero
November 2001 **Proceedings of the 2001 ACM Symposium on Document engineering**
Publisher: ACM Press

Full text available: 📄 pdf(305.72 KB)

Additional Information: full citation, abstract, references, citings, index terms

We present a framework for the automatic generation of links based on salient semantic structures extracted from homogeneous web repositories, and discuss an imple-mentation of the framework. For this study, we consider homogeneous the repositories of the eClass, an instrumented environment that automatically captures details of a lecture and provides effective multimedia-enhanced web-based in-terfaces for users to review the lecture, and the CoWeb, a web-based service for collaborative authorin ...

Keywords: automatic linking, information integration, information retrieval, semantic structures

2 Linking documents: An open linking service supporting the authoring of web documents

Renato Bulcao Neto, Claudia Akemi Izeki, Maria da Graça Pimentel, Renata Pontin Fortes, Khai Nhut Truong
November 2002 **Proceedings of the 2002 ACM symposium on Document engineering**
Publisher: ACM Press

Full text available: 📄 pdf(447.35 KB)

Additional Information: full citation, abstract, references, citings, index terms

Both content driven web authors and application designers may have their attention deviated from their main task when they have to be concerned with the generation of elaborated linking structures. This work aims to demonstrate how a metadata-enhanced web-based open linking service can be exploited towards supporting content driven authors in their tasks. The following results are presented in this paper: (a) the Web Linking Service (WLS), a novel open hypermedia system that stores and exchanges ...

Keywords: RDF-based metadata, content driven authoring, document engineering, open linking service, web engineering

3 Linking documents: XLinkProxy: external linkbases with XLink

Paolo Ciancarini, Federico Folli, Davide Rossi, Fabio Vitali

November 2002 **Proceedings of the 2002 ACM symposium on Document engineering**

Publisher: ACM Press

Full text available: pdf(282.33 KB)   Additional Information: full citation, abstract, references, citings, index terms

> In the linking model of the World Wide Web each link is stored in the referring document within an attribute of the A tag. All the hyperlink defined this way can reference a single resource or a single fragment. With the evolution of Web technologies more powerful linking languages (XLink and XPointer) have been proposed.Here we introduce XLinkProxy, a Web application that allows sophisticated hyperlink (defined using XLink and XPointer) to be defined outside referring documents, giving users th ...

> **Keywords:** XLink, XPointer, external linkbases

4 An experimental system for creating and presenting interactive graphical documents

S. Feiner, S. Nagy, A. van Dam

January 1982 **ACM Transactions on Graphics (TOG)**, Volume 1 Issue 1

Publisher: ACM Press

Full text available: pdf(3.53 MB)   Additional Information: full citation, references, citings, index terms

> **Keywords:** maintenance and repair, pictorial information systems

5 Xanalogical structure, needed now more than ever: parallel documents, deep links to content, deep versioning, and deep re-use

Theodor Holm Nelson

December 1999 **ACM Computing Surveys (CSUR)**

Publisher: ACM Press

Full text available: pdf(787.72 KB)   Additional Information: full citation, references, citings, index terms

6 Linking documents: XConnector: extending XLink to provide multimedia synchronization

Débora C. Muchaluat-Saade, Rogério F. Rodrigues, Luiz Fernando G. Soares

November 2002 **Proceedings of the 2002 ACM symposium on Document engineering**

Publisher: ACM Press

Full text available: pdf(267.32 KB)   Additional Information: full citation, abstract, references, citings, index terms

> This paper proposes XConnector, a language for the creation of complex hypermedia relations with causal or constraint semantics. XConnector allows the definition of relations independently of which resources are related. Another feature is the specification of relation libraries, providing reuse in relationship definition. The main goal is to improve linking languages or the linking modules of hypermedia authoring languages in order to provide multimedia synchronization capabilities using links. ...

> **Keywords:** XConnector, XLink, hypermedia connector, links, multimedia synchronization

7 HieNet: a user-centered approach for automatic link generation

Daniel T. Chang
December 1993 **Proceedings of the fifth ACM conference on Hypertext**
Publisher: ACM Press
Full text available: pdf(1.14 MB)   Additional Information: full citation, references, citings, index terms

Keywords: SGML, link apprentice, link generation, links, vector space model

8 Session IV - hypertext systems: Intermedia: issues, strategies, and tactics in the

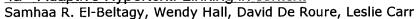design of a hypermedia document system
L. Nancy Garrett, Karen E. Smith, Norman Meyrowitz
December 1986 **Proceedings of the 1986 ACM conference on Computer-supported**
cooperative work
Publisher: ACM Press
Full text available: pdf(1.20 MB)   Additional Information: full citation, abstract, references, citings

A hypermedia system provides a tool for cooperative work by allowing writers and
designers to share a network of linked documents where they can create documents, link
their own and others' documents together, and leave notes for one another. This paper
discusses issues that designers need to address in the development of hypermedia
systems. Major issues involve what kind of linking, contexts, and visual modeling the
system provides. The composite of the answers to these issues determines the na ...

9 4a---Adaptive Hypertext: Linking in context

Samhaa R. El-Beltagy, Wendy Hall, David De Roure, Leslie Carr
September 2001 **Proceedings of the twelfth ACM conference on Hypertext and**
Hypermedia
Publisher: ACM Press

Full text available: pdf(367.88 KB)   Additional Information: full citation, abstract, references, citings, index
terms

This paper explores the idea of dynamically adding multi-destination links to Web pages,
based on the context of the pages and users, as a way of assisting Web users in their
information finding and navigation activities. The work does not make any preconceived
assumptions about the information needs of its users. Instead it presents a method for
generating links by adapting to the information needs of a community of users and for
utilizing these in assisting users within this community based ...

Keywords: context, dynamic linking, information finding, link generation, links,
navigation assistance, open hypermedia, software agents

10 THESUS: Organizing Web document collections based on link semantics

Maria Halkidi, Benjamin Nguyen, Iraklis Varlamis, Michalis Vazirgiannis
November 2003 **The VLDB Journal — The International Journal on Very Large Data**
Bases, Volume 12 Issue 4
Publisher: Springer-Verlag New York, Inc.
Full text available: pdf(262.85 KB)   Additional Information: full citation, abstract, citings, index terms

The requirements for effective search and management of the WWW are stronger than
ever. Currently Web documents are classified based on their content not taking into
account the fact that these documents are connected to each other by links. We claim
that a page's classification is enriched by the detection of its incoming links' semantics.

This would enable effective browsing and enhance the validity of search results in the WWW context. Another aspect that is underaddressed and str ...

Keywords: Document clustering, Link analysis, Link management, Semantics, Similarity measure, World Wide Web

11 Link aggregation: Untangling compound documents on the web

Nadav Eiron, Kevin S. McCurley

August 2003 **Proceedings of the fourteenth ACM conference on Hypertext and hypermedia**

Publisher: ACM Press

Full text available: pdf(192.59 KB)   Additional Information: full citation, abstract, references, citings, index terms

Most text analysis is designed to deal with the concept of a "document", namely a cohesive presentation of thought on a unifying subject. By contrast, individual nodes on the World Wide Web tend to have a much smaller granularity than text documents. We claim that the notions of "document" and "web node" are not synonymous, and that authors often tend to deploy documents as collections of URLs, which we call "compound documents". In this paper we present new techniques for identifying and workin ...

Keywords: composites, hypertext, information retrieval, semantic web, wasted space

12 Linking by interacting: a paradigm for authoring hypertext

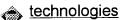Maria da Graça Pimentel, Gregory D. Abowd, Yoshihide Ishiguro

May 2000 **Proceedings of the eleventh ACM on Hypertext and hypermedia**

Publisher: ACM Press

Full text available: pdf(487.73 KB)   Additional Information: full citation, references, citings, index terms

Keywords: augmenting, authoring hypertext, capturing, linking, presenting, user-hypertext interaction

13 A large-scale hypermedia application using document management and Web technologies

V. Balasubramanian, Alf Bashian, Daniel Porcher

April 1997 **Proceedings of the eighth ACM conference on Hypertext**

Publisher: ACM Press

Full text available: pdf(1.13 MB)   Additional Information: full citation, references, citings, index terms

Keywords: WWW, distributed authoring, document management, information retrival, publishing, systematic hypermedia design, templates, views, workflow

14 Creating hypermedia materials for English literature students

Nicole Yankelovich, George P. Landow, David Cody

April 1987 **ACM SIGCUE Outlook**, Volume 19 Issue 3-4

Publisher: ACM Press

Full text available: pdf(1.44 MB)   Additional Information: full citation, references

15 Text summarization: Multiple & single document summarization using DR-LINK

Mary McKenna, Elizabeth Liddy

October 1998 **Proceedings of a workshop on held at Baltimore, Maryland: October 13-15, 1998**

Publisher: Association for Computational Linguistics

Full text available: pdf(607.29 KB)   Additional Information: full citation, abstract, references

> Our Tipster Phase III research objective for the Summarization task is to produce a single summary across multiple documents returned from a search on an information retrieval system. An established set of metrics to evaluate the performance of our system is not available in this field at present, so this research is also developing a procedure to evaluate the summaries we create. We hope to uncover useful metrics and evaluation variables that can be used by others working in this area.

16 Document management and Web technologies: Alice marries the Mad Hatter

V. Balasubramanian, Alf Bashian

July 1998 **Communications of the ACM**, Volume 41 Issue 7

Publisher: ACM Press

Full text available: pdf(209.52 KB)   Additional Information: full citation, references, citings, index terms, review

17 Hypertext, full text, and automatic linking

J. H. Coombs

December 1989 **Proceedings of the 13th annual international ACM SIGIR conference on Research and development in information retrieval**

Publisher: ACM Press

Full text available: pdf(1.46 MB)   Additional Information: full citation, abstract, references, citings, index terms

> Current computing systems typically support only mid-century information structures: simple hierarchies. Hypertext technologies enable users to impose many structures on document sets and, consequently, provide many paths to desired information, but they require that users work their way through some structure. Full-text search eliminates this requirement by ignoring structure altogether. The search strategy can also be restricted to work within specified contexts. The architecture provided ...

18 Design issues for multi-document hypertexts

R. J. Glushko

November 1989 **Proceedings of the second annual ACM conference on Hypertext**

Publisher: ACM Press

Full text available: pdf(861.35 KB)   Additional Information: full citation, references, citings, index terms

19 Linking by inking: trailblazing in a paper-like hypertext

Morgan N. Price, Gene Golovchinsky, Bill N. Schilit

May 1998 **Proceedings of the ninth ACM conference on Hypertext and hypermedia : links, objects, time and space---structure in hypermedia systems: links, objects, time and space---structure in hypermedia systems**

Publisher: ACM Press

Full text available: pdf(1.46 MB)   Additional Information: full citation, references, citings, index terms

20 Information retrieval session 7: web: Representing interests as a hyperlinked
     document collection
     Michelle Fisher, Richard Everson
     November 2003 **Proceedings of the twelfth international conference on Information
                   and knowledge management**
     Publisher: ACM Press
     Full text available: pdf(111.85 KB)   Additional Information: full citation, abstract, references, index terms

     We describe a latent variable model for representing a user's interests as a hyperlinked
     document collection. By collecting hyper-text documents that a user views, creates or
     updates whilst at their computer, we are able to use not only the content of these
     documents but also the inter-connectivity of the collection to model the user's interests.
     The model uses Probabilistic Latent Semantic Analysis and Probabilistic Hypertext Induced
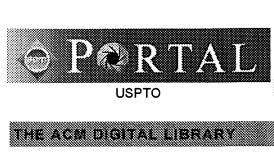   Topic Selection and decomposes the user's document collection ...

     Keywords: hyperlinked/hypertext document collections, information access, latent
     variable models, user interests

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1 The linked ArcView 2.1 and XGobi environment—GIS, dynamic statistical graphics, and spatial data
Jürgen Symanzik, James J. Majure, Dianne Cook
November 1996 **Proceedings of the 4th ACM international workshop on Advances in geographic information systems**
Publisher: ACM Press
Full text available: 📄 pdf(5.61 MB)   Additional Information: full citation, references, citings, index terms

2 CHIME: customizable hyperlink insertion and maintenance engine for software engineering environments
P. Devanbu, Y.-F. Chen, E. Gansner, H. Müller, J. Martin
May 1999 **Proceedings of the 21st international conference on Software engineering**
Publisher: IEEE Computer Society Press
Full text available: 📄 pdf(1.28 MB)   Additional Information: full citation, references, citings, index terms

3 Online documentation: evolution rather than revolution
Marilyn Kirschen
November 1993 **Proceedings of the 11th annual international conference on Systems documentation**
Publisher: ACM Press
Full text available: 📄 pdf(651.28 KB)   Additional Information: full citation, citings, index terms

4 Developing a hypertext productivity tool from a hardcopy programmer's reference
Victoria A. Hailey, Dov Lungu, Sheila Thompson
November 1992 **Proceedings of the 10th annual international conference on Systems documentation**
Publisher: ACM Press
Full text available: 📄 pdf(403.35 KB)   Additional Information: full citation, abstract, index terms

In documenting a software product in the IBM Canada Development Laboratory, we moved a massive amount of reference information from hardcopy to online using

hypertext links and other features available on a Graphical User Interface (GUI). Creating documentation for the new medium proved to be a process of gradual discovery involving not only technical communicators, but also software developers and users. The result was a hypertext that added functionality to the original documentation into ...

5 Graph-based retrieval of information in hypertext systems

Yuri Quintana, Mohamed Kamel, Andrew Lo

November 1992 **Proceedings of the 10th annual international conference on Systems documentation**

Publisher: ACM Press

Full text available: pdf(1.07 MB)   Additional Information: full citation, references, citings, index terms

6 HieNet: a user-centered approach for automatic link generation

Daniel T. Chang

December 1993 **Proceedings of the fifth ACM conference on Hypertext**

Publisher: ACM Press

Full text available: pdf(1.14 MB)   Additional Information: full citation, references, citings, index terms

Keywords: SGML, link apprentice, link generation, links, vector space model

7 How deep are your links?

Aaron Weiss

September 2002 **netWorker,** Volume 6 Issue 3

Publisher: ACM Press

Full text available: pdf(488.79 KB)   Additional Information: full citation, abstract, index terms
html(29.83 KB)

*"If you operate a Web site and wish to link to this Site, you may link only to the home page of the Site and not to any other page or sub-domain of us...."
-- The Dallas Morning News,
www.dallasnews.com/registration/termsofservice.html*

8 A system for discovering relationships by feature extraction from text databases

Jack G. Conrad, Mary Hunter Utt

August 1994 **Proceedings of the 17th annual international ACM SIGIR conference on Research and development in information retrieval**

Publisher: Springer-Verlag New York, Inc.

Full text available: pdf(911.76 KB)   Additional Information: full citation, references, citings, index terms, review

9 TIPSTER architecture: TIPSTER text phase II architecture concept

Architecture Committee

May 1996 **Proceedings of a workshop on held at Vienna, Virginia: May 6-8, 1996**

Publisher: Association for Computational Linguistics

Full text available: pdf(1.28 MB)   Additional Information: full citation, abstract

The TIPSTER Architecture is a software architecture for providing Document Detection (i.e. Information Retrieval and Message Routing) and Information Extraction functions to text handling applications. The high level architecture is described in an Architecture Design Document. In May 1996, when the initial architecture design is complete, an

Interface Control Document will be provided specifying the form and content of all inputs and outputs to the TIPSTER modules.

10 Short Papers: Information programming for personal user interfaces

Stephen Farrell, Volkert Buchmann, Christopher S. Campbell, Paul P. Maglio
January 2002 **Proceedings of the 7th international conference on Intelligent user interfaces**
Publisher: ACM Press

Full text available: pdf(27.91 KB)   Additional Information: full citation, abstract, references, index terms

With widespread access to e-mail, the world-wide web, and other information sources, people now use computers more for managing information than for managing applications. To support how people naturally and routinely organize information, computers ought to be able to reflect the categories, relationships, and cues that people rely on when thinking about and remembering facts. Toward this end, we created an *Information Programming Toolkit (IPtk)* that collects application-independent prop ...

11 Technical papers: software architecture: An infrastructure for the rapid development of XML-based architecture description languages

Eric M. Dashofy, André van der Hoek, Richard N. Taylor
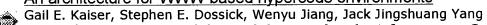May 2002 **Proceedings of the 24th International Conference on Software Engineering**
Publisher: ACM Press

Full text available: pdf(1.40 MB)   Additional Information: full citation, abstract, references, citings, index terms

Research and experimentation in software architectures over the past decade have yielded a plethora of software architecture description languages (ADLs). Continuing innovation indicates that it is reasonable to expect more new ADLs, or at least ADL features. This research process is impeded by the difficulty and cost associated with developing new notations. An architect in need of a unique set of modeling features must either develop a new architecture description language from scratch or unde ...

12 An architecture for WWW-based hypercode environments

Gail E. Kaiser, Stephen E. Dossick, Wenyu Jiang, Jack Jingshuang Yang
May 1997 **Proceedings of the 19th international conference on Software engineering**
Publisher: ACM Press

Full text available: pdf(1.84 MB)   Additional Information: full citation, references, citings, index terms

13 CogentHelp: NLG meets SE in a tool for authoring dynamically generated on-line help

Michael White, David E. Caldwell
March 1997 **Proceedings of the fifth conference on Applied natural language processing**
Publisher: Morgan Kaufmann Publishers Inc.

Full text available: pdf(1.21 MB)   Additional Information: full citation, abstract, references
Publisher Site

CogentHelp is a prototype tool for authoring dynamically generated on-line help for applications with graphical user interfaces, embodying the "evolution-friendly" properties of tools in the literate programming tradition. In this paper, we describe Cogen Help, highlighting the usefulness of certain natural language generation techniques in supporting software-engineering goals for help authoring tools --- principally, quality and evolvability of help texts.

14 Editing online documents: Editing to improve online information

Dennis Bockus

September 2000 **Proceedings of IEEE professional communication society international professional communication conference and Proceedings of the 18th annual ACM international conference on Computer documentation: technology & teamwork**

Publisher: IEEE Educational Activities Department

Full text available: pdf(423.90 KB)   Additional Information: full citation, abstract, references

> Online documentation has provided new challenges for information developers. At the IBM Toronto lab, those challenges have led us editors to alter the work we do. We have found that the nonlinear nature of HTML information webs makes quality control more crucial and difficult than it was when our information appeared in books. Editors provide both guidelines and quality assurance to try to maintain consistency. We have also redefined our role to include a number of information architecture activ ...

15 Houses, windows and DOHR's: (descriptive object of high rank)

Stephen M. Mansour

June 2000 **ACM SIGAPL APL Quote Quad , Proceedings of the international conference on APL-Berlin-2000 conference APL '00,** Volume 30 Issue 4

Publisher: ACM Press

Full text available: pdf(892.48 KB)   Additional Information: full citation, abstract, references, index terms

> Anyone who buys a house can appreciate the complexity of a mortgage. Mortgage analysis requires not only significant computations, but also vast quantities of input and output. The interface between APL and Windows can provide a link between the input and the calculations; however, display of the output remains a problem. Mortgage data are inherently multi-dimensional, resulting in high-rank arrays. The dimensions involve individual mortgages or bond classes, and various prepayment and default s ...

16 P6: Re-forming information: a case study in teaching content encapsulation

Rebecca Matson

October 2001 **Proceedings of the 19th annual international conference on Computer documentation**

Publisher: ACM Press

Full text available: pdf(204.46 KB)   Additional Information: full citation, abstract, references, index terms

> The challenges that face content management writers are not just tools, but the design principles and concepts underlying content management. This paper is a case study that explores the challenges of teaching writers both to create encapsulated content and to design that content within a user-centric approach to information design. The approach used in the class provided a fine-grained definition of information types to move the writers as far as possible from the traditional documentation appr ...

> **Keywords:** encapsulated content, information design, information encapsulation

17 A multi-paradigm querying approach for a generic multimedia database management system

Ji-Rong Wen, Qing Li, Wei-Ying Ma, Hong-Jiang Zhang

March 2003 **ACM SIGMOD Record,** Volume 32 Issue 1

Publisher: ACM Press

Full text available: pdf(524.08 KB)   Additional Information: full citation, abstract, references, citings

> To truly meet the requirements of multimedia database (MMDB) management, an integrated framework for modeling, managing and retrieving various kinds of media data

in a uniform way is necessary. MediaLand is an experimental MMDB platform being developed at *Microsoft Research Asia* for users with different levels of experiences and expertise to manage and search multimedia repositories easily, efficiently, and cooperatively. Key features of MediaLand include a uniform data model for describi ...

Keywords: media independence, multi-paradigm querying, multimedia database management, uniform data modeling

18 A Web-based approach to interactive visualization in context

Audris Mockus, Stacie Hibino, Todd Graves

May 2000 **Proceedings of the working conference on Advanced visual interfaces**

Publisher: ACM Press

Full text available: pdf(905.89 KB)   Additional Information: full citation, abstract, references, citings, index terms

This paper proposes a framework for easily integrating and controlling information visualization (infoVis) components within web pages to create powerful interactive "live" documents, or LiveDocs. The framework includes a set of infoVis components which can be placed and linked within a standard HTML document, initialized to focus on key analysis results, and directly manipulated by readers to explore and analyze data further. In addition, authors can script the manipulation of ...

Keywords: authoring visualization web pages, live documents, web-based information visualization

19 Contextualizing the information space in federated digital libraries

M. P. Papazoglou, J. Hoppenbrouwers

March 1999 **ACM SIGMOD Record**, Volume 28 Issue 1

Publisher: ACM Press

Full text available: pdf(695.20 KB)   Additional Information: full citation, abstract, citings, index terms

Rapid growth in the volume of documents, their diversity, and terminological variations render federated digital libraries increasingly difficult to manage. Suitable abstraction mechanisms are required to construct meaningful and scalable document clusters, forming a cross-digital library information space for browsing and semantic searching. This paper addresses the above issues, proposes a distributed semantic framework that achieves a logical partitioning of the information space accordi ...

20 The "growing up" of HyperBraille—an office workspace for blind people

Thomas Kieninger

November 1996 **Proceedings of the 9th annual ACM symposium on User interface software and technology**

Publisher: ACM Press

Full text available: pdf(840.13 KB)   Additional Information: full citation, references, index terms

Keywords: HTML editor, World Wide Web, blindness, document analysis, hypertext, pattern matcher

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